

SECRET

$$J_1 = \overline{Q_2}$$

$$K_1 = Q_2$$

$$J_2 = Q_1$$

$$K_2 = \overline{Q_1}$$

$$J_3 = T \cdot \overline{Q_3} \cdot Q_5 \cdot R_4$$

$$K_3 = Q_3 \cdot Q_5 \cdot R_4$$

$$J_4 = Q_3 \cdot R_4$$

$$K_4 = \overline{Q_3} \cdot R_4$$

$$J_5 = (Q_4 \cdot R_4) + (T \cdot \overline{Q_3} \cdot \overline{Q_5} \cdot R_4)$$

$$K_5 = \overline{Q_4} \cdot R_4$$

$$J_6 = T \cdot \overline{Q_7} \cdot A$$

$$K_6 = (Q_7 \cdot A) + (\overline{T} \cdot A)$$

$$J_7 = Q_6 \cdot A$$

$$K_7 = \overline{Q_6} \cdot \overline{Q_8} \cdot A$$

$$J_8 = Q_7 \cdot \overline{Q_6} \cdot A$$

$$K_8 = \overline{T} \cdot A$$

$$J_9 = \text{DECISION BAUD PULSE}$$

$$K_9 = R_4$$

$$J_{10} = Q_9 \cdot R_4$$

$$K_{10} = \overline{Q_9} \cdot R_4$$

$$J_{11} = (\text{START SIGNAL}) \cdot R_4 \cdot \overline{Q_8}$$

$$K_{11} = \text{DECISION STOP PULSE} + T(6800 \text{ PPS CP})$$

$$A = (R_4 \cdot \overline{Q_11}) + (R_4 \cdot Q_3 \cdot \overline{Q_4} \cdot Q_5 \cdot \overline{Q_6}) + (R_4 \cdot Q_3 \cdot \overline{Q_4} \cdot Q_5 \cdot Q_8)$$

$$\text{READOUT SIGNAL} = (R_2 \cdot Q_6 \cdot Q_8) + (R_2 \cdot Q_3 \cdot \overline{Q_4} \cdot Q_5 \cdot Q_8)$$

$$R_1 = Q_1 \cdot Q_2$$

$$R_2 = \overline{Q_1} \cdot Q_2$$

$$R_3 = \overline{Q_1} \cdot \overline{Q_2}$$

$$R_4 = Q_1 \cdot \overline{Q_2}$$

$$\text{ONE} = (Q_5 \cdot \overline{Q_6} \cdot Q_8) + (\overline{Q_5} \cdot \overline{Q_8}) + Q_{10}$$

$$\text{ZERO} = \overline{\text{ONE}}$$

$$\text{BUFFER 1} = (\text{ONE} \cdot R_1 \cdot Q_{11} \cdot T) + (\text{ONE} \cdot R_1 \cdot Q_6 \cdot \overline{T})$$

$$\text{BUFFER 2} = (\text{ONE} \cdot R_2 \cdot Q_{11} \cdot T) + (\text{ONE} \cdot R_2 \cdot Q_6 \cdot \overline{T})$$

$$\text{BUFFER 3} = (\text{ONE} \cdot R_3 \cdot Q_{11} \cdot T) + (\text{ONE} \cdot R_3 \cdot Q_6 \cdot \overline{T})$$

$$\text{BUFFER 4} = (\text{ONE} \cdot R_4 \cdot Q_{11} \cdot T) + (\text{ONE} \cdot R_4 \cdot Q_6 \cdot \overline{T})$$

$$\text{BUFFER 5} = (\text{ZERO} \cdot R_1 \cdot Q_{11} \cdot T) + (\text{ZERO} \cdot R_1 \cdot Q_6 \cdot \overline{T})$$

$$\text{BUFFER 6} = (\text{ZERO} \cdot R_2 \cdot Q_{11} \cdot T) + (\text{ZERO} \cdot R_2 \cdot Q_6 \cdot \overline{T})$$

$$\text{BUFFER 7} = (\text{ZERO} \cdot R_3 \cdot Q_{11} \cdot T) + (\text{ZERO} \cdot R_3 \cdot Q_6 \cdot \overline{T})$$

$$\text{BUFFER 8} = (\text{ZERO} \cdot R_4 \cdot Q_{11} \cdot T) + (\text{ZERO} \cdot R_4 \cdot Q_6 \cdot \overline{T})$$

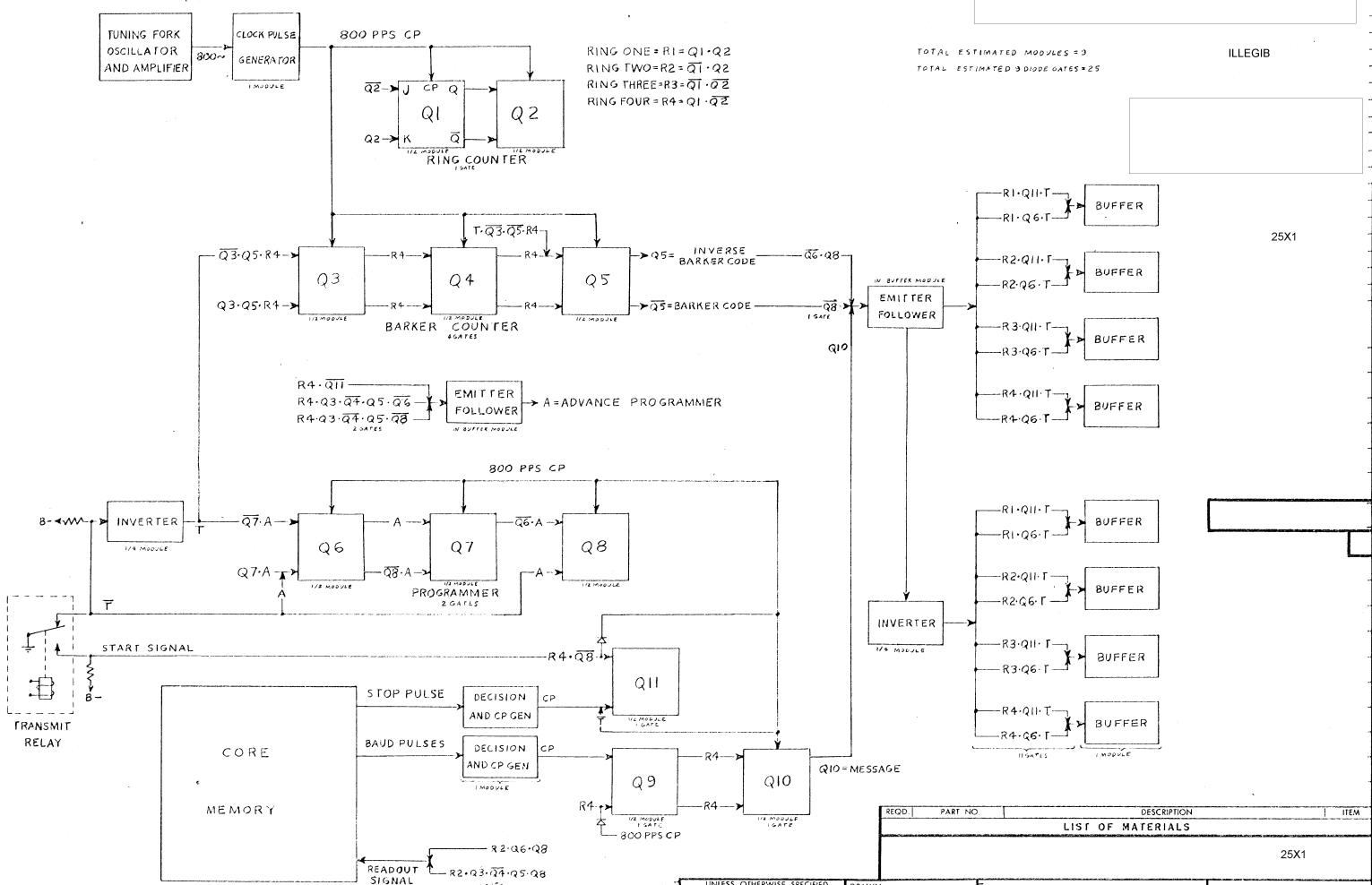
SECRET

REVISIONS

DESCRIPTION	DATE	APPROVAL
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TOTAL ESTIMATED MODULES = 3

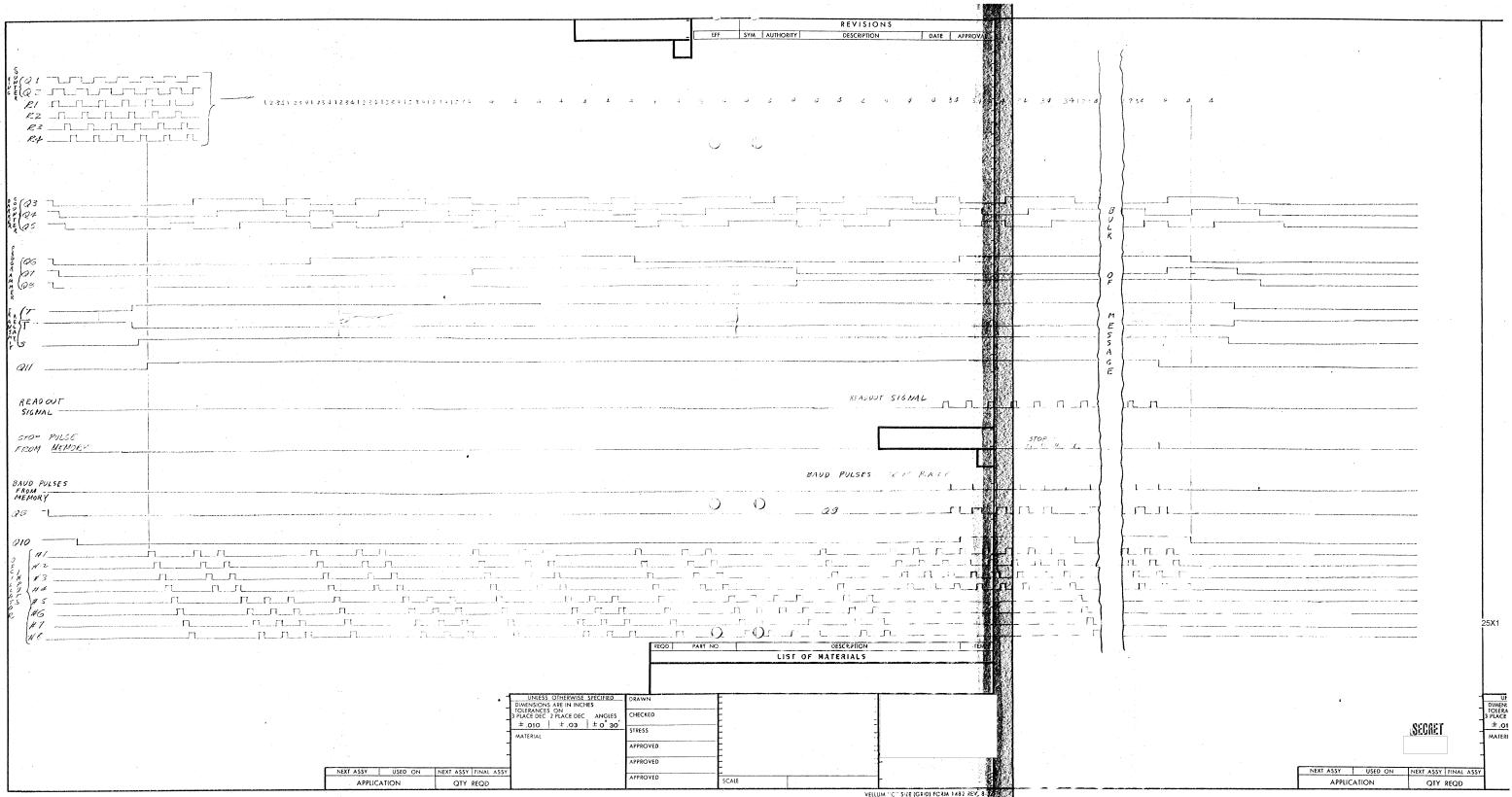
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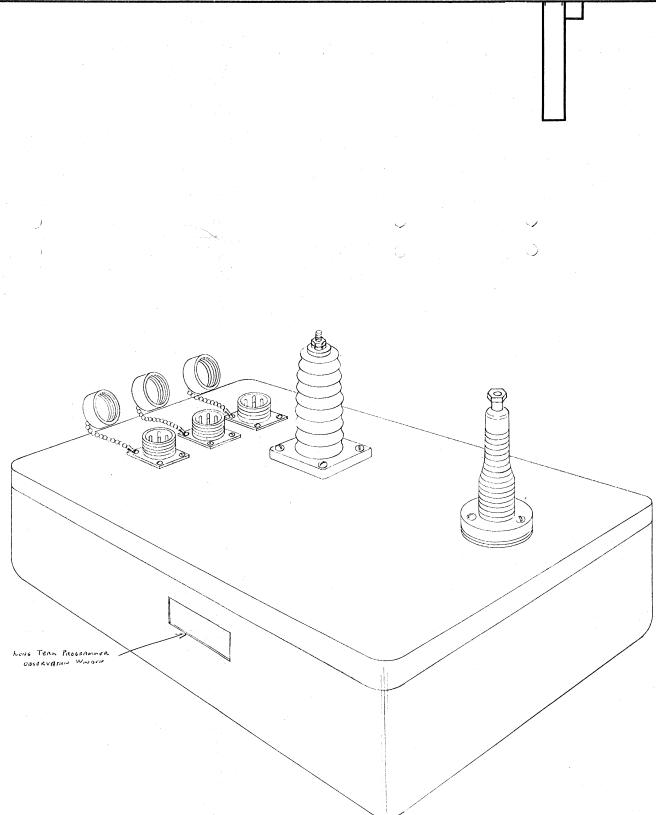
REQ'D.	PART NO.	DESCRIPTION	ITEM
LIST OF MATERIALS			
			25X1

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES .
 3 PLACE DEE 2 PLACE DEC ANGLES,
 $\pm .010$ | $\pm .02$ | $\pm 0^{\circ}30'$
 DRAWN
 CHECKED
 STRESS

SECRET



REVISIONS			
OFF	SYM	AUTHORITY	DESCRIPTION
			DATE APPROVAL



X324159

APR 16 1958

REFERENCE ONLY

C-132 Dimensions NOT INCLUDING Antenna Mounts 15 X 13 X 5 $\frac{1}{2}$
STAT

STAT

REF ID	PART NO.	DESCRIPTION	ITEM
LIST OF MATERIALS			
UNCLASSIFIED			

NOTES OTHERWISE STATED	DRAWN 13 APRIL 1958
DIMENSIONS ARE IN INCHES	CHECKED
ALL PLATES & PLATE DEC ANGLES	STRESS
0.000	APPROVED
2.02	APPROVED
0.00	APPROVED

LAYOUT
AD103 TASK 8

X324159

VELUM O-512 FORM 1423 REV. B-37